

EPR Fluid Systems Engineer

Within Edvance, the Ventilation Systems Contract Department (SCV) is the technical expertise centre for fluid systems (air and water) and the technical management of ventilation and cooling system contracts. It is responsible for the design of more than 80 fluid systems (water or air) for nuclear islands:

- boiler systems,
- auxiliary systems,
- ventilation systems,
- effluent treatment systems,
- server systems.

It has numerous responsibilities:

- on the system side, it carries out all the design activities for its system, from basic design to on-site testing,
- on the contract side, it draws up the contractual specifications, provides the interface between the departments, carries out the technical monitoring of the suppliers and manages the technical, cost and deadline aspects of the contract on behalf of the project managers.

Within the Edvance Ventilation Systems Contract Department, the systems engineer is responsible for the design of a system associated with the operation of the reactor on one of the EPR projects (Flamanville, Hinkley Point or EPR2). In this capacity, he/she:

- ✓ carries out the **design activities** of his/her system according to the engineering phase:
 - is responsible for functional studies, classification of equipment, responses to the safety authority,
 - hydraulic, thermal and aerodynamic studies,
 - control and command specifications,
- ✓ is a **design build architect**: he/she incorporates the requirements of the various departments, ensures that they are reflected in the design, and optimises the performance of the system in terms of technical components, cost and deadlines.

The Systems Engineer plays a central role in nuclear engineering.

He/she works with all the Edvance engineering departments and is involved in all phases of the project: Basic Design, detailed studies, tests, etc.

He/she carries out various design activities as well as management activities in order to ensure that the system is well designed in line with the project's performance objectives from a technical, cost and deadline perspective.